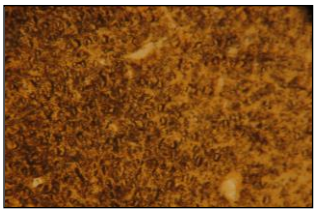

VIAAT (Vesicular Inhibitory Amino Acid Transporter) Antibody

Catalog #	**20092**	**Product type**	Primary antibodies
Lot #	**1115001**	**Clonality**	Polyclonal
Form	Lyophilized Whole Serum (100 µL)	**Isotype**	N/A
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Rat. Predicted to React With: Human, Mouse	**Antigen**	Synthetic peptide corresponding to rat VIAAT (511–525) coupled to carrier protein.

INSTRUCTIONS

Preparation	Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be cooled during shipping; however, for long-term storage, store lyophilized antibody until ready to use at -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot and freeze at -15ºC or lower. Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.

APPLICATION

Quality Control	The ImmunoStar VIAAT antiserum was quality control tested using standard immunohistochemical methods in rat brain and spinal cord using biotin/avidin-HRP techniques. Specificity of the antiserum was demonstrated by soluble preadsorption and western blot. Tissue staining is completely eliminated by pretreatment of the diluted antibody with an excess of rat VIAAT peptide residues (511–525). Western blot analysis of immunoprecipitated rat brain homogenates demonstrates a dense immunoreactive band of approximately 57 kD and a minor band of approximately 36 kD.
Tissue	Rat brain and spinal cord
Absorption Control	Rat VIAAT (511–525) 25 µg/mL diluted antibody completely eliminates immunolabeling
Perfusion Fixation	• Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL over 20 min. • Post Fixation: 1.5 hours at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4. • Note: Paraformaldehyde is a necessary component in fixation. If needed, low levels of glutaraldehyde (0.1–0.3%) may be used in conjunction with paraformaldehyde.
Sections	10 µm cryostat or 50 µm vibratome
Tissue Incubation	18–24 hours at 2°– 8°C
Detection System	Use Bn/AV-HRP at dilutions recommended by the manufacturers.
Suggested Dilution	1/5,000–1/10,000 in PBS/0.3% Triton X-100 - Bn/AV-HRP immunohistochemistry

NOTES

Special Instructions	It is recommended that users perform a primary antibody dilution series using the dilution recommendations above as a guideline. Note that any change in the fixation or buffering system from our protocol may change the configuration of the protein which could alter the reactivity with the tissue tested.
Storage	After reconstitution, use immediately or refrigerate at 2-8°C up to 2 days. For long-term storage, aliquot antibody and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal Articles	www.immunostar.com/publications